

## TECHNICAL Q & A

### Q: How does Vermont Castings create such a wood-like flame in its Gas Stoves?

A: Credit for the flame goes to our patented Insta-Flame Ceramic Burner, which uses high quality ceramics to create the most realistic wood-like flames in the market today. The Insta-Flame Ceramic Burner is also the most durable burner system on the market. It is constructed of a ceramic tile material that withstands the highest temperatures. (This material is so durable it's also used on space shuttles!) The Insta-Flame Ceramic Burner is non-corroding and rust resistant – it will stand the test of time and heat. It's so good it's covered by a Limited Lifetime Warranty. Other fireplace manufacturers utilize conventional steel and tube burners in their fireplaces, which in time will deteriorate.

### Q: Can I place my gas stove directly on my wood floors?

A: Yes. Unlike wood stoves, Vermont Castings Gas Stoves can be placed directly on a wood floor with no added heat protection. (However, if placed on carpet or linoleum, floor protection is needed.)

### Q: Can I replace my old wood stove with a gas stove?

A: A Vermont Castings Gas Stove is a perfect choice for replacing an old wood stove. You can choose either a direct vent, natural vent, or vent-free model.

### Q: Can I use an existing chimney?

A: A natural vent stove can use the existing chimney to house a vent liner. A direct vent stove can be vented vertically, using an existing chimney as long as the direct vent pipe fits through the existing damper and flue, and as long as the pipe extends to the top of the chimney (to a maximum of 40 feet).

### Q: What are vent-free gas stoves? Are they safe?

A: Vent-free Gas Stoves are an effective supplemental heat source. Due to their high efficiency (99.9%), no venting is required. Vermont Castings also offers an optional catalytic filter for its vent-free gas stoves. And, yes, a vent-free gas stove is safe. A primary safety feature is an effective, time-tested device called an Oxygen Depletion Sensor system. Vent-free appliances are not available in certain states or provinces. Ask your dealer for details.

### Q: Will a Gas Stove operate during a power outage?

A: Yes. The standing pilot system, found on all Vermont Castings Gas Stoves, generates its own power without using electricity -- and will even work if there is a power outage. Here's how it works: A standing pilot system incorporates a thermocouple and a thermopile, sometimes both. A thermocouple is a small steel rod made of two different types of metals. In a gas appliance, a small flame constantly heats the thermocouple. This flame creates a small electrical current called millivolts. The millivolts generated from the thermocouple energize an electromagnet inside of the gas valve holding the valve open and allowing gas to flow to the burner in a gas



stove or gas fireplace. As a result, the standing pilot system requires no outside electrical resource for operation.

### Q: Can I hook up my Vermont Castings Gas Stove to a wall thermostat or use a remote control.

A: Yes. All Vermont Castings Gas Stoves (as well as Gas Inserts and Gas Fireplaces) are available in models that can include a wall-mounted thermostat or hand-held remote control. These are the most popular types of gas valves used.

In fact, there are several types of valves used in our Gas Stoves (and inserts and fireplaces). Each valve carries certain operational features. Below is a brief explanation of each:

#### Manual

Operation: On/Off; no remote or wall thermostat capability

Products: Stardance Vent-Free, Pinnacle Vent-Free, RHE25 Gas Insert

#### Built-in Thermostat

Operation: Control knob sets comfort level, cycles burner On and Off as needed. No remote or wall thermostat capability.

Products: RFS22, RFSDV22, RFS42, RFSDV42

#### Thermostat/Remote Capable

Operation: Gas stoves have an On/Off switch on the units. Direct vent fireplaces come with a switch that can also be wall mounted. These models can use an optional hand held remote control or a wall mounted thermostat. The most popular type of valve.

Products: All Vermont Castings gas products except RFSDV34 Gas Stove (which comes standard with a remote control).



#### Integrated Comfort Control System

Operation: A complete remote controlled system that operates virtually everything. This system controls flame height, temperature and fan speed at multiple levels and can be operated in three different modes: AUTO, ON or OFF. There is also a countdown timer to turn "OFF" the appliance after you go to bed. A built-in LED display light indicates any valve failures for service personnel. A Vermont Castings exclusive!

Products: RFSDV34 Gas Stove (standard model); Stardance Direct Vent, Pinnacle Direct Vent, RHE32, RHEDV32, RHE42 and RHEDV42 Gas Inserts, DV360 and DV580 Gas Fireplaces (optional model).

